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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/942,488	08/30/2001	Hans-Helmut Bechtel	DE 000132	8003	
24737	7590 06/19/2003				
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAM	EXAMINER	
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			2070		

DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.    Op/942,488   BECHTEL ET AL.			$\mathcal{U}$				
Examiner   Sikha Roy   2879		Application No.	Applicant(s)				
Sikha Roy   2379	Office Action Summany						
Preiod for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Eatherlows for many by eavilate under the provisions of 3 C.SR. 1.19(e). In no event, however, may a reply be timely filed  ### The period for reply specified above is base trans hithy (30) days, a reply within the sautory relievant on thinky (30) days, with be considered timely.  ### The period for reply specified above is base trans hithy (30) days, a reply within the sautory relievant on thinky (30) days, with be considered timely.  ### The period for reply specified above is base transitions of a first period for reply specified above. The maintain station period will appear and will expire St. (MONTHS from the maining date of this communication.  ### The period for reply specified above is base transitions of a first period of the period of the period for reply specified above. The maining date of the communication of the period of t	Office Action Summary	Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  alter SIX (6) MONTHS from the mailing date of his communication.  If the period crops specified see is least than this? (30) says, a reply within the statutory minimum of thinly (30) days will be considered timely.  If the period crops specified see is least than this? (30) says, a reply within the statutory minimum of thinly (30) days will be considered timely.  If the period crops specified see is least than this? (30) says, a reply within the statutory minimum of thinly (30) days will be considered timely.  If the period crops specified see is least than this?  Fallwir to reply within the set or extended secured for reply will by period will a period of the communication, even if timely field, may reduce any secured prior them adjustment. See 3 TCRR 1.74(tp).  Status  1)	TI MAN NO DATE CHI						
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of am empt be willight under the provisions of 37 CPR 1.13(g). In no event, however, may a reply be limitly filed after SX (8) MCNTHS from the mailing date of this communication of the state of the communication of the communication of the communication of the state of the communication of the communication of the communication of the state of the communication of the communication of the state of the communication of the state of the communication of the state of the communication of		ears on the cover sheet with the c	orrespondence address				
1) Responsive to communication(s) filed on 03 March 2003.  2a) This action is FINAL. 2b) This action is non-final.  3.) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-9 is/are pending in the application.  4a) Of the above claim(s)	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply</li> <li>If NO period for reply is specified above, the maximum statutory period w</li> <li>Failure to reply within the set or extended period for reply will, by statute,</li> <li>Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days a lapply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal F					

Application/Control Number: 09/942,488

Art Unit: 2879

### **DETAILED ACTION**

The Amendment, filed on March 3, 2003 has been entered and is acknowledged by the Examiner.

## Specification

The disclosure is objected to because of the following informalities:

As provided in 37CFR 1.77(b) the specification should include following sections, each one with proper section headings such as 'Title of the Invention', 'Background of the Invention', 'Summary of the Invention', 'Brief Description of Drawing', 'Detailed Description of the Invention', 'Claims' and 'Abstract'.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 - 3, 7 - 9 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,998,918 to Do et al.

Referring to claims 1 and 2 Do et al. disclose (column 1 lines 58-67, column 2 lines 1-25) a phosphor screen for a color CRT comprising double phosphor layer the first layer with preferred blue phosphor ZnS: Ag and the second layer with UV phosphor

wavelength of the emitted light from the second layer being 300-420nm. The first layer of ZnS: Ag (conventional blue phosphor) inherently emits light in the wavelength range of 400-490 nm having a peak at wavelength 450nm. It is elementary that mere recitation of a newly discovered property, inherently possessed by things in the prior art, does not cause a claim drawn to distinguish over the prior art. Additionally, where the Patent Office has reason to believe that a functional limitation asserted to be critical for establishing novelty in the claimed subject matter may, in fact, be an inherent characteristic of the prior art, it possesses the authority to require the applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

Regarding claim 3 Do et al. disclose the second phosphor is selected from the group consisting of Ce<sup>3+</sup> –activated phosphors.

Regarding claim 7 Do et al. disclose (column 3 lines 29,30) that the color screen is characterized in that the layer comprising ZnS: Ag is coated as base (first) layer and then the layer comprising UV phosphor is coated as second layer.

Referring to claim 8 Do et al. disclose the first phosphor is ZnS: Ag.

Regarding claim 9 Do et al. disclose (claims 1,2) the phosphor screen with blue phosphor layer comprising two layers is used for a flickerless cathode ray tube.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,998,918 to Do et al. and further in view of JP 2-120389 to Hagiwara et al. and U.S. Patent 6,010,644 to Fu et al.

Claim 4 differs from Do et al. in that Do et al. do not disclose the second phosphor chosen from the group consisting of  $Sr_2P_2O_7$ : Eu.

Hagiwara discloses the second blue phosphor having light emission peak at 410-430nm in the fluorescent screen for a fluorescent lamp comprising of Eu <sup>2+</sup> activated Sr<sub>2</sub>P<sub>2</sub>O<sub>7</sub>, for not undergoing reduction in luminous flux or change in chromaticity after using for a long time. Fu et al. in pertinent art of phosphor disclose (column 1 lines 5-15) that phosphors producing fluorescence in a fluorescent lamp can be used in a cathode ray tube.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to include Eu <sup>2+</sup> activated Sr<sub>2</sub>P<sub>2</sub>O<sub>7</sub> in the second layer of phosphor of Do et al. so that the screen does not undergo reduction in luminous flux or change in chromaticity after using for a long time.

Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,998,918 to Do et al. and further in view of JP 2-135276 to Hitachi Ltd.

Claim 5 differs from Do et al. in that Do et al. do not specify the phosphor layer comprising mixture of particles of first phosphor and second phosphor.

JP 2-135276 discloses mixing of the two phosphor particles (first blue phosphor of ZnS: Ag and a second blue phosphor) in a blue-color projecting cathode ray tube resulting in improved luminance in range of high electron beam current.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to modify the two layers of first and second phosphors of Do et al. by a phosphor layer comprising mixture of the phosphor particles as suggested by JP 2-135276 for providing improved luminance in range of high electron beam current.

Regarding claim 6 JP-2-135276 discloses the mixture containing 70% by weight of the first phosphor and 30% by weight of the second phosphor.

## Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (703) 308-2826. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (703) 305-4794. The fax phone number for the organization is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

5.R.

Sikha Roy Patent Examiner Art Unit 2879

NIMESHKUMAR D. PATEL SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800